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We claim:

Medical Electrical

1. A medical electrical lead comprising:

an elongated insulative lead body having a tissue-contacting surface, a proximal end, and a distal end;

an elongated conductor having a proximal end and a distal end, mounted within the insulative lead body; and

an electrode coupled to the distal end of the electrical conductor for making electrical contact with bodily tissue; wherein the tissue-contacting surface of the insulative lead body comprises a polymer in intimate contact with a steroidal anti-inflammatory agent.

- 2. The medical electrical lead of claim 1 wherein the polymer is selected from the group of polyurethanes, silicones, polyamides, polyimides, polycarbonates, polyethers, polyesters, polyvinyl aromatics, polytetrafluoroethylenes, polyofefins, acrylic polymers or copolymers, vinyl halide polymers or copolymers, polyvinyl ethers, polyvinyl esters, polyvinyl ketones, polyvinylidine halides, polyacrylonitriles, copolymers of vinyl monomers with each other and olefins, and combinations thereof.
- 3. The medical electrical lead of claim 2 wherein the polymer is selected from the group of polyurethanes, silicones, or combinations thereof.
- 25 4. The medical electrical lead of claim 1 wherein the antiinflammatory agent is a glucocorticosteroid.
 - 5. The medical electrical lead of claim 4 wherein the glucocorticosteroid is selected from the group of cortisol, cortisone, fludrocortisone, Prednisone, Prednisolone, 6α-methylprednisolone, triamcinolone, betamethasone, dexamethasone, beclomethasone,

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aclomethas one, amcinonide, clebethasol, clocortolone, derivatives thereof, and salts thereof.

- 6. The medical electrical lead of claim 5 wherein the
 glucocorticosteroid is dexamethasone, a derivative thereof, or a salt thereof.
 - 7. The medical electrical lead of claim 1 wherein the antiinflammatory agent is coated onto the tissue-contacting surface.
 - 8. The medical electrical lead of claim 1 wherein the tissuecontacting surface comprises an anti-inflammatory agent incorporated into a polymeric overcoating.
- 15 9. The medical electrical lead of claim 1 wherein the antiinflammatory agent is impregnated into the polymer of the tissuecontacting surface.
- 10. The medical electrical lead of claim 1 wherein the antiinflammatory agent is covalently bended to the polymer of the tissuecontacting surface.
 - 11. The medical electrical lead of claim 1 wherein the tissue-
 - 12. A medical electrical lead comprising:

an elongated insulative lead body having a tissue-contacting surface, a proximal end, and a distal end;

an elongated conductor having a proximal end and a distal end, mounted within the insulative lead body; and

an electrode coupled to the distal end of the electrical conductor for making electrical contact with bodily tissue;

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wherein the tissue-contacting surface of the insulative lead body consists essentially of a nonporous polymer in intimate contact with a steroidal anti-inflammatory agent.

An indwelling catheter comprising:

an elongate body having a proximal end, a distal end, a tissuecontacting surface, and at least one interior lumen therethrough; and an external fitting coupled to the proximal end;

wherein the tissue-contacting surface of the elongate body comprises a polymer in intimate confact with a steroidal anti-inflammatory agent.

The indwelling catheter of claim 13 further comprising one or more helical coils formed in the elongate body between the proximal and distal ends.

The indivelling catheter of claim 13 wherein the polymer is 15. selected from the group of polyurethanes, silicones, polyamides, polyimides, polycarbonates, polyethers, polyesters, polyvinyl aromatics, polytetrafluoroethylenes, polyolefins, acrylic polymers or copolymers, vinyl halide polymers or copalymers, polyvinyl ethers, polyvinyl esters, polyvinyl ketones, polyvinylidine halides, polyacrylonitriles, copolymers of vinyl monomers with each other and olefins, and combinations thereof.

The indwelling catheter of claim 15 wherein the polymer is 16. selected from the group of polyurethanes, silicones, or combinations thereof.

The indwelling catheter of claim 13 wherein the anti-inflammatory agent is a glucocorticosteroid.

The indwelling catheter of claim 17 wherein the glucocorticosteroid is selected from the group of cortisol, cortisone,

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fludrocortisone, Prednisone, Prednisolone, 6α -methylprednisolone, triamcinolone, betamethasone, dexamethasone, beclomethasone, aclomethasone, amcinonide, clebethasol, clocortolone, derivatives thereof, and salts thereof.

19. The indwelling catheter of claim 18 wherein the glucocorticosteroid is dexamethasone, a derivative thereof, or a salt thereof.

20. The indwelling catheter of claim 13 wherein the anti-inflammatory agent is coated onto the tissue-contacting surface.

The indwelling catheter of claim 13 wherein the tissue-contacting surface comprises an anti-inflammatory agent incorporated into a polymeric overcoating.

22. The indwelling catheter of claim 13 wherein the anti-inflammatory agent is impregnated into the polymer of the tissue-contacting surface.

23. The indwelling catheter of claim 13 wherein the anti-inflammatory agent is covalently bonded to the polymer of the tissue-contacting surface.

24. The indwelling catheter of claim 13 wherein the tissue-contacting surface further includes heparin.

25. An indwelling catheter comprising:
an elongate body having a proximal end, a distal end, a tissuecontacting surface, and at least one interior lumen therethrough; and
an external fitting coupled to the proximal end;

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wherein the tissue-contacting surface of the elongate body consists essentially of a nonporous polymer in intimate contact with a steroidal anti-inflammatory agent.

5 26. A method of modulating tissue encapsulation of a medical electrical lead comprising implanting the lead into a patient, wherein the medical electrical lead comprises:

an elongated insulative lead body having a tissue-contacting surface, a proximal end, and a distal end;

an elongated conductor having a proximal end and a distal end, mounted within the insulative lead body; and

an electrode coupled to the distal end of the electrical conductor for making electrical contact with bodily tissue; wherein the tissue-contacting surface of the insulative lead body comprises a polymer in intimate contact with a steroidal anti-inflammatory agent.

27. A method of modulating tissue encapsulation of an indwelling catheter comprising implanting the indwelling catheter into a patient, wherein the indwelling catheter comprises:

an elongate body having a proximal end, a distal end, a tissuecontacting surface, and at least one interior lumen therethrough; and an external fitting coupled to the proximal end;

wherein the tissue-contacting surface of the elongate body comprises a polymer in intimate contact with a steroidal anti-inflammatory agent.

28. A method of modulating degradation of a medical electrical lead comprising implanting the lead into a patient, wherein the medical electrical lead comprises:

an elongated insulative lead body having a tissue-contacting surface, a proximal end, and a distal end;

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an elongated conductor having a proximal end and a distal end, mounted within the insulative lead body; and

an electrode coupled to the distal end of the electrical conductor for making electrical contact with bodily tissue;

wherein the tissue-contacting surface of the insulative lead body 5 comprises a polymer in intimate contact with a steroidal antiinflammatory agent.

A method of modulating degradation of an indwelling catheter 29. comprising implanting the indwelling catheter into a patient, wherein the indwelling catheter comprises:

an elongate body having a proximal end, a distal end, a tissuecontacting surface, and at least one interior lumen therethrough; and

an external fitting coupled to the proximal end; wherein the tissue-contacting surface of the elongate body comprises a polymer in intimate contact with a steroidal anti-inflammatory agent.

30. A method of making a medical electrical lead comprising: providing an elongated insulative lead body having a tissuecontacting surface, a phoximal end, and a distal end; wherein the tissuecontacting surface comprises a polymer in intimate contact with a steroidal anti-inflammatory agent;

providing an elongated conductor having a proximal end and a distal end;

mounting the elongated conductor within the insulative lead body; and

coupling an electrode to the distal end of the electrical conductor for making electrical contact with bodily tissue.

The method of claim 30 wherein the step of providing an 31. elongated insulative lead body comprises blending a steroidal anti-

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inflammatory agent with a polymer and forming a tissue-contacting surface.

32. The method of claim 30 wherein the step of providing an elongated insulative lead body comprises coating a steroidal anti-inflammatory agent onto the tissue-contacting surface of the lead body.

33. A method of making an indwelling catheter comprising:

providing an elongate body having a proximal end, a distal end, a
tissue-contacting surface, and at least one interior lumen therethrough;
wherein the tissue-contacting surface comprises a polymer in intimate
contact with a steroidal anti-inflammatory agent; and

coupling an external fitting to the proximal end of the elongate body.

34. The method of claim 33 wherein the step of providing an elongate body comprises blending a steroidal anti-inflammatory agent with a polymer and forming a tissue-contacting surface.

35. The method of claim 30 wherein the step of providing an elongate body comprises coating a steroidal anti-inflammatory agent onto the tissue-contacting surface of the elongate body.

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